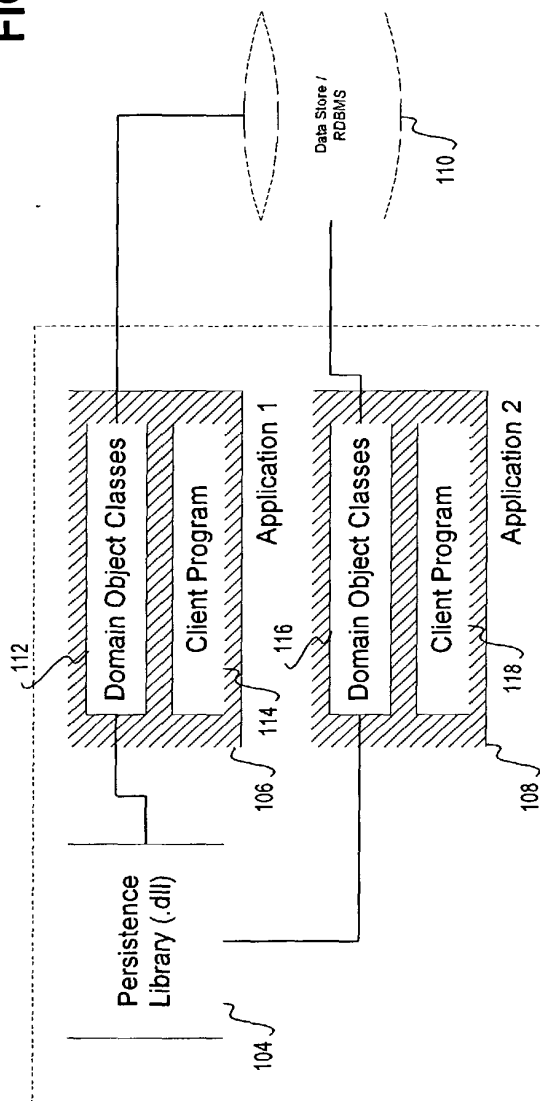


FIG 1



102

FIG 3

```

502 //With persistence
506 using Jpersistence; //persistence library
    [PersistenceClass(tableName="Orderform",ConnectionString="DSN:MyStore")]
    Class Corderform : DBObj
504 {
    [PersistenceFieldAttribute(isKey=true, isAuto=true, isRequired=true,
508     TableColumn="orderId", DataType=NUMBER)]
    public int orderId;
    [PersistenceFieldAttribute(isKey=false, isAuto=false, isRequired=true,
    TableColumn="totalAmount", DataType=NUMBER)]
510     public decimal totalAmt;
    [PersistenceObjAttribute(FK_Column="customerID", propagateDelete=false)]
512     public Ccustomer cust; //Ccustomer must also derive from DBObj
    [PersistenceDBObjCollection(propagateDelete=true)]
    public DBObjCollection ordItems;

    Corderform() //constructor
    {
        ordItems=new DBObjCollection(
            typeof(COrderItem),
            new FilterClause[]{
                new FilterClause(typeof(CorderItem),
                    "orderId",SQL_OPERAND.IS_EQ,new
                    Jpersistence.DBObjFieldValue(GetValue), "orderId",)
            },
            new SortClause[]{
                new SortClause(typeof(CorderItem), "orderItemID",
                    Jpersistence.DBSortOrder.ASCENDING)
            }
        );
    }
}

```

FIG 4

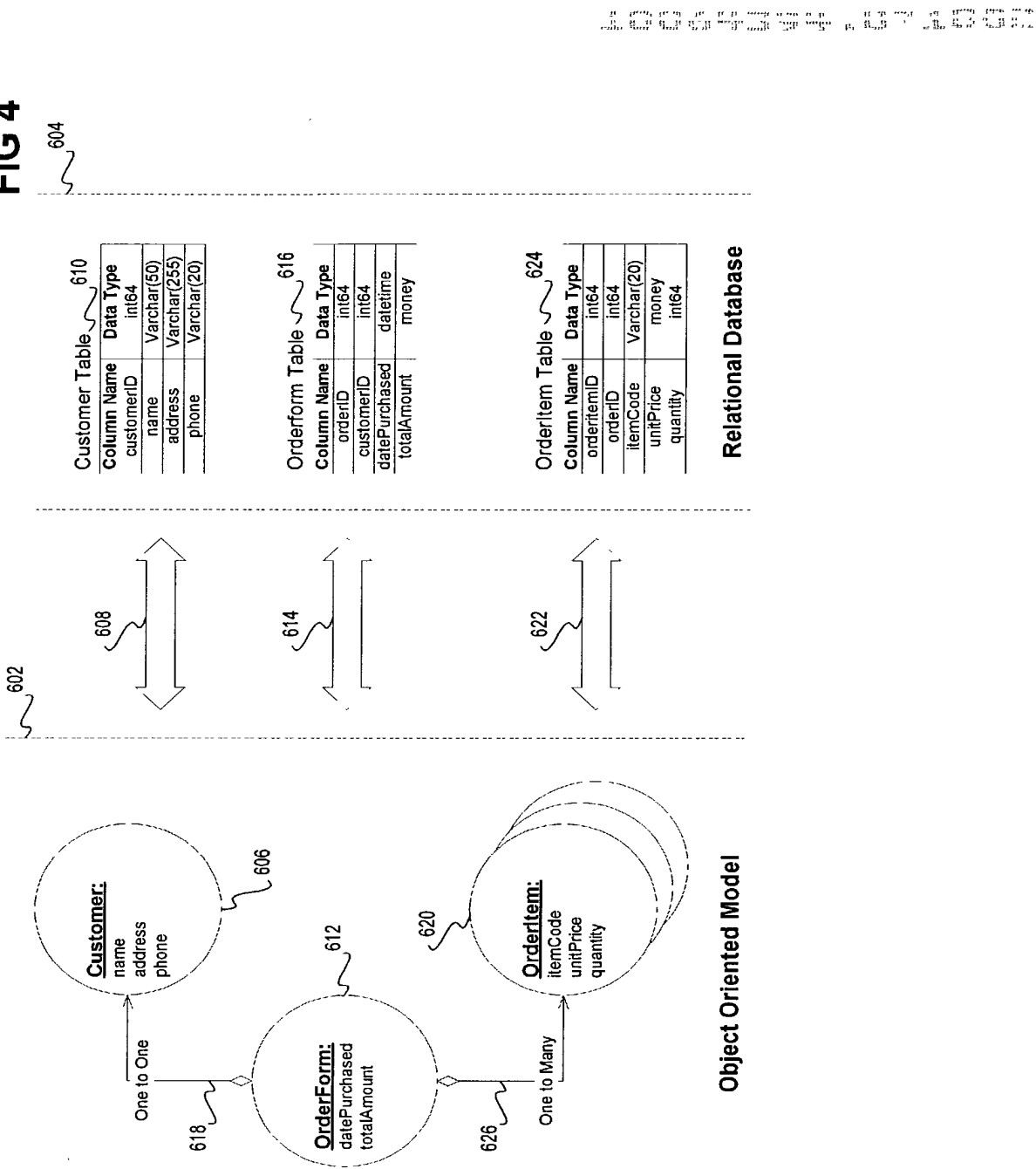


FIG 5

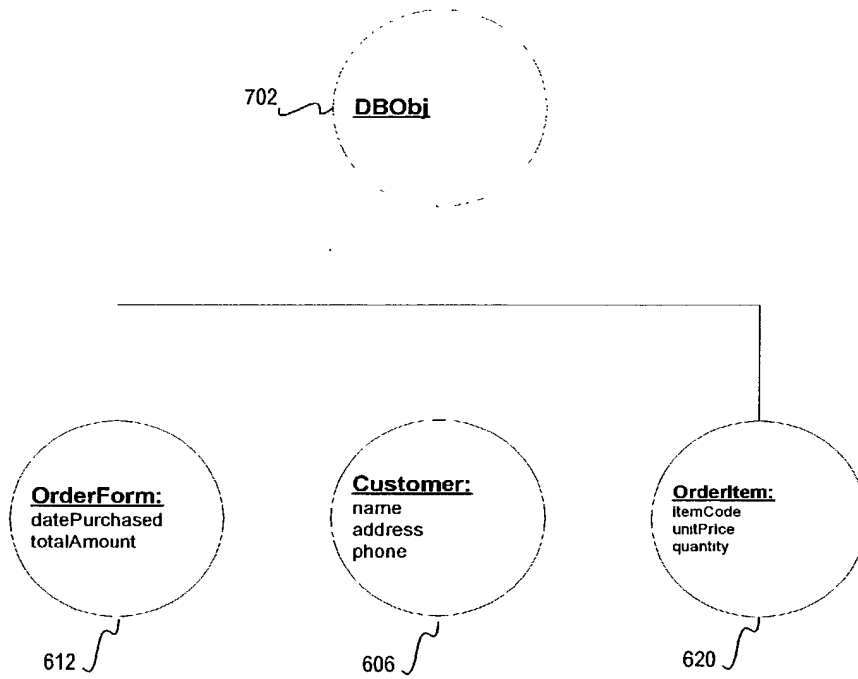


FIG 6

```
// Sample Application

Customer newCust = new Customer();
newCust.Name = "Joe Smith";
newCust.Address = "1212 Crenshaw Blvd., Torrance CA 90505";
newCust.Phone = "555-123-1234";

802 // Save() is inherited from Persistence Base Class
    newCust.Save();

// Load persisted object. Load() is inherited from Persistence Base Class
804 Customer oldCust = new Customer();
    int customerId=123;
    oldCust.Load(customerID);

//Update
    oldCust.Name="Jane Doe";
    oldCust.Save();

806 //Delete() is inherited from Persistence Base Class
    oldCust.Delete();
```

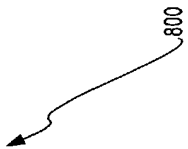


FIG 6 is a diagram illustrating a sample application. The application includes a Customer class and a Persistence Base Class. The Customer class has attributes Name, Address, and Phone. The Persistence Base Class has methods Save(), Load(), Update(), and Delete(). The sample application demonstrates the use of these methods to create, load, update, and delete a Customer object.